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## CLAIMS

What is claimed is:

- A polymer composition comprising a propylene polymer having a melt flow
- 2 index in the range from 4 to 120 decigrams/minute, di-t-amyl peroxide, and at least one
- 3 decomposition product of said peroxide, whereby said composition has agreeable odor
- 4 characteristics.
  - 2. The composition of claim 1 wherein the propylene polymer is selected from the group consisting of homopolymeric polypropylene and copolymers of propylene with other copolymerizable monomers wherein greater than about 50% by weight of the copolymer is comprised of propylene moieties.
  - The composition of claim 2 wherein the propylene polymer is homopolymeric polypropylene.
  - 4. The composition of claim 2 wherein the propylene polymer is a copolymer of
- 2 propylene and at least one comonomer selected from the group consisting of
- 3 ethylene, butylene, and 4-methyl-pentene-1.
- 1 5. The composition of claim 1 wherein at least one decomposition product of di-t-
- 2 amyl peroxide is t-amyl alcohol.

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- 1 6. The composition of claim 1 wherein the di-t-amyl peroxide is present in a range
- of from 200 to 2000 parts by weight per million parts by weight of the propylene
- 3 polymer.

decigrams/minute, and

- 7. A method of manufacturing a shaped article comprising the steps of:
- 2 A) mixing a propylene polymer having a melt flow index in the range from
  3 1 to 20 decigrams/minute with a vis-breaking amount of di-t-amyl peroxide.
- 4 B) heating the mixture at a temperature effective to decompose the 5 di-t-amyl peroxide until the melt flow index is in the range of from 4 to 120
  - C) shaping an article comprising a mixture comprising the propylene polymer having a melt flow index in the range from 4 to 120 decigrams/minute, di-t-amyl peroxide, and decomposition products of said peroxide, whereby said article has agreeable odor characteristics.
- 1 8. The method of claim 7 wherein the propylene polymer is selected from the
  2 group consisting of homopolymeric polypropylene and copolymers of propylene with
  3 other copolymerizable monomers wherein greater than about 50% by weight of the
  4 copolymer is comprised of propylene moieties.
- The method of claim 8 wherein the propylene polymer is homopolymeric
   polypropylene.

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- 1 10. The method of claim 8 wherein the propylene polymer is a copolymer of
- 2 propylene and at least one comonomer selected from the group consisting of
- 3 ethylene, butylene, and 4-methyl-pentene-1.
- 1 I1. The method of claim 7 wherein at least one decomposition product of di-t-amyl
- 2 peroxide is t-amyl alcohol.
- 1 12. The method of claim 7 wherein the di-t-amyl peroxide is present in a range of
  2 from 200 to 2000 parts by weight per million parts by weight of the propylene polymer.
- 1 In a method for producing a controlled rheology propylene polymer, the
- 2 improvement that comprises employing a vis-breaking amount of t-amyl peroxide to
  - generate free radicals and produce t-amyl alcohol, whereby the pleasantness of the
- 4 organoleptic qualities of the polymer is increased.